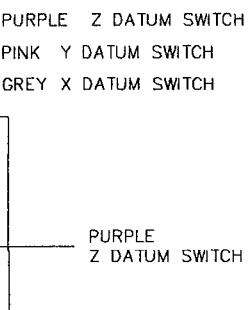


MICROMILL RELAY AND FUSE WIRING	SHEET 2
MICROMILL	
DENSTEP	

STEPPER MOTOR (SANYO DENKI)
(103 H 7123-0440)

Y AXIS MOTOR

X AXIS MOTOR



LINK IN BLUE

CHASSIS	12	
GND	11	
HOME 2	10	
HOME 1	9	
HOME 0	8	
STOP	7	
GND	6	
CHASSIS	5	
	4	
	3	
	2	
	1	

CHASSIS	12	
GND	11	
COM	10	
15	9	
14	8	
13	7	
12	6	
11	5	
10	4	
9	3	
8	2	
CHASSIS	1	

CHASSIS	12	
GND	11	
COM	10	
7	9	
6	8	
5	7	
4	6	
3	5	
2	4	
1	3	
0	2	
CHASSIS	1	

EARTH	12	
AGND	11	
AN 2-	10	
AN 2+	9	
AN 1-	8	
AN 1+	7	
CHASSIS	6	
	5	
	4	
	3	
	2	
	1	

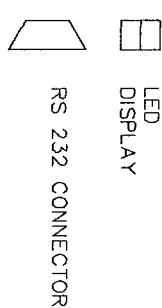
EARTH	12	
5	11	
4	10	
3	9	
2	8	
1	7	
CHASSIS	6	
	5	
	4	
	3	
	2	
	1	

EARTH	12	
5	11	
4	10	
3	9	
2	8	
1	7	
CHASSIS	6	
	5	
	4	
	3	
	2	
	1	

NOT USED BLUE
EARTH YELLOW
A ORANGE ORANGE
B WHITE WHITE
C BLACK BLACK
D RED RED

RED RED
BLACK BLACK
YELLOW WHITE
ORANGE ORANGE

NOT USED BLUE
EARTH YELLOW



TB8 EXTRA INPUTS

TB9 INPUTS

TB10 12v / 5v PSU

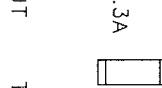
TB11 28v AC INPUT

DRIVES

EARTH

LOGIC

TB12 AXIS 2



6.3A

TB11

EARTH

LOGIC

TB12 AXIS 2

SPINDLE S-GND	1	
SPINDLE ANALOGUE	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	

BLUE FROM GR (6)

Y DATUM SWITCH PINK

X DATUM SWITCH GREY

BLUE FROM GR (7)

PURPLE 24v	1	
EARTH	2	
PURPLE 0v	3	
	4	
	5	

RED RED
BLACK BLACK
WHITE YELLOW
ORANGE ORANGE
YELLOW NOT USED
BLUE NOT USED

MICROMILL
DEN-STEP CONTROL
BOARD WIRING

SHEET 3

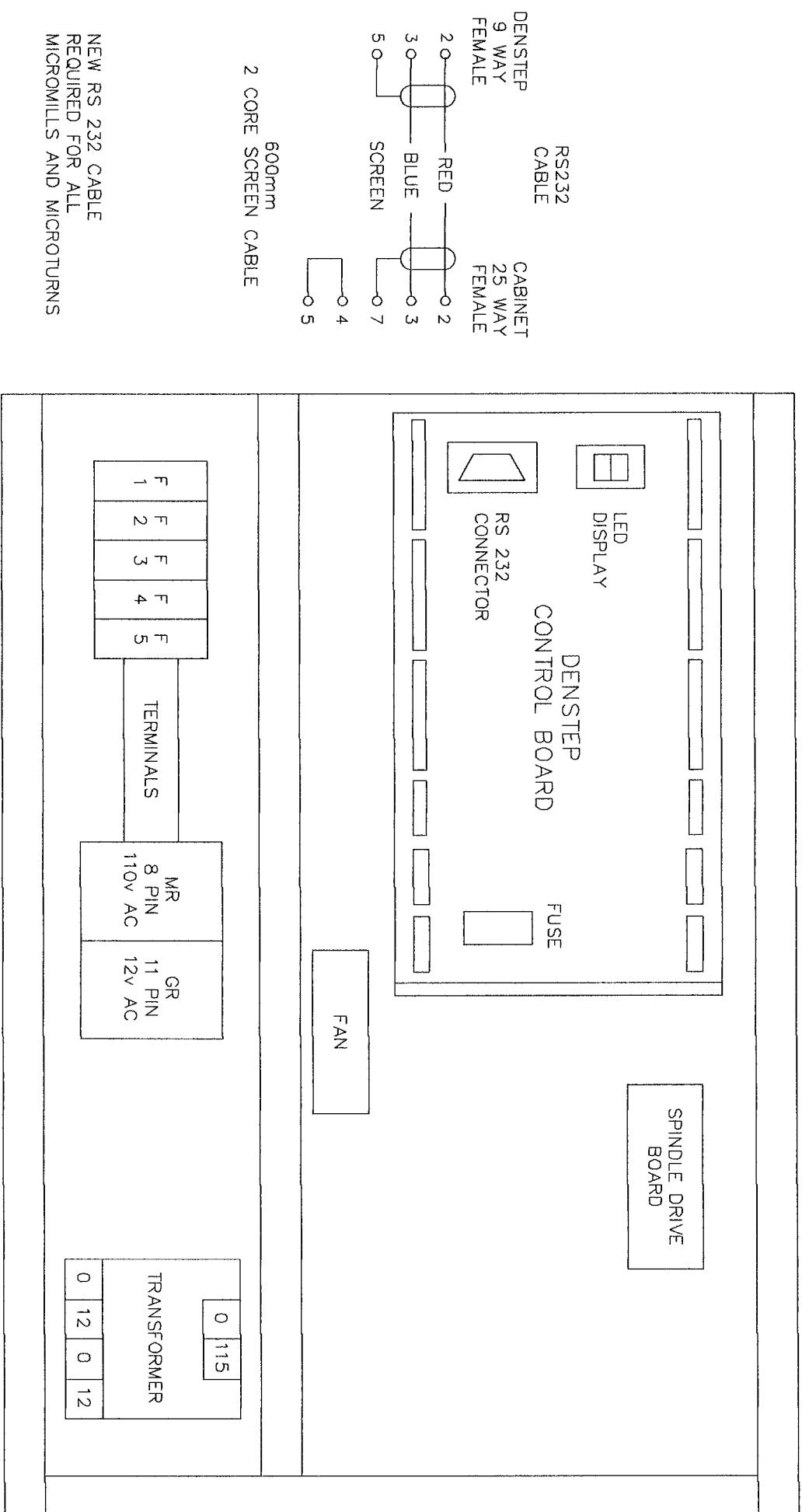
MICROMILL
DENSTEP

DENFORD LIMITED

BRIGHOUSE WEST YORKSHIRE

DRN BY A McHENRY

DATE 3-7-2000 MD - 3C



MICROMILL
PANEL LAYOUT
AND RS232 CABLE

SHEET 4

MICROMILL

DENSTEP

KEY SWITCH

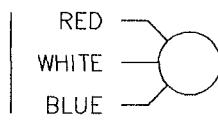
SPINDLE
SPEED POT.

SPINDLE
ON / OFF
SWITCH

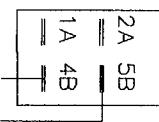
MACHINE ON
LAMP

FORK CRIMP
AT SWITCH END

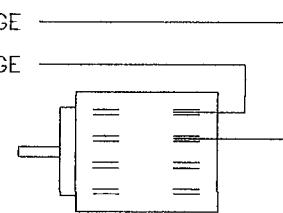
EMERGENCY
STOP
SWITCH



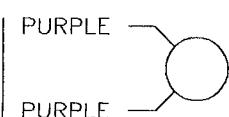
SPADEF CRIMP 1.5m



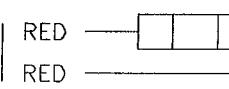
FERRULE 1.75m BLACK
FERRULE 1.3m ORANGE



1.65m



FORK CRIMP 1.75m



FORK CRIMP 1.65m

DATUM SWITCHES

90° CRIMPS AT SWITCH END WITH
180mm BLACK HEATSHRINK
FERRULES AT PANEL END

X AXIS 1.1m GREY
Y AXIS 1.9m PINK
Z AXIS 1m PURPLE

STEPPER MOTOR (SANYO DENKI)
(103 H 7123-0440)

SPINDLE MOTOR	
RED	DO NOT EXTEND
BLACK	SPADEF CRIMP
ORANGE	1.4m
WHITE	1.1m
GREEN	650m
	FERRULE

FERRULE	
RED	RED
BLACK	BLACK
ORANGE	ORANGE
WHITE	WHITE
BLUE	YELLOW
	NOT CONNECTED

X AXIS	
Y AXIS	1.1m
Z AXIS	1.75m
	FERRULE

Y AXIS	
X AXIS	1.1m
Z AXIS	1.75m
	FERRULE

Z AXIS	
X AXIS	1.1m
Y AXIS	1.9m
	FERRULE

MICROMILL DEN-STEP CONTROL BOARD WRING	SHEET 5
	MICROMILL
	DENSTEP